

APPENDIX C: IMPULSE RESPONSES FOR SIGNALS CENTERED AT 5.8 GHz

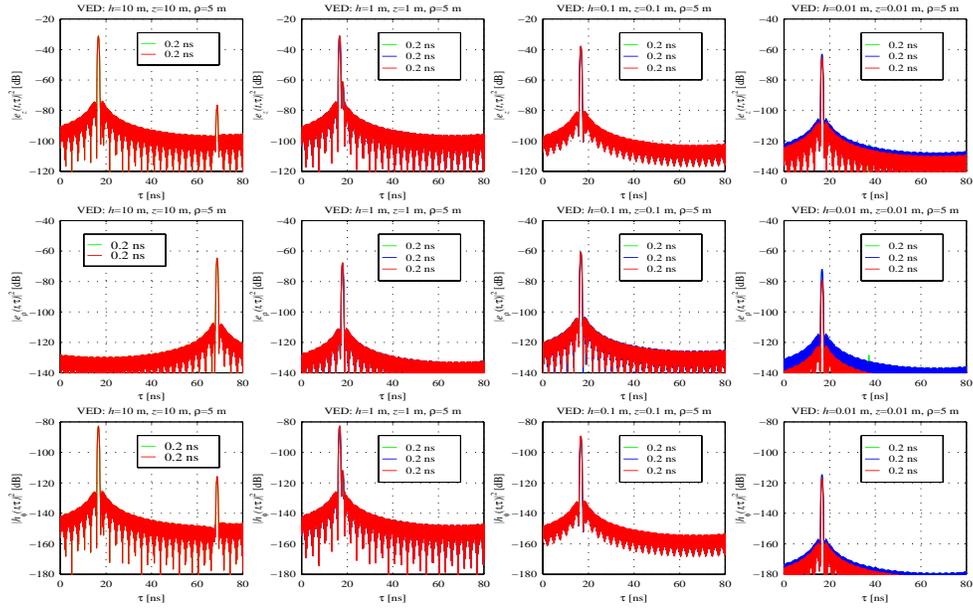


Figure C-1. Near-surface effects on impulse responses of a VED above a concrete half space ($f_c=5.8$ GHz, $BW\approx 1$ GHz, threshold=-30 dB). Legends display Sommerfeld, GO + Norton term, and GO approximations to delay spread.

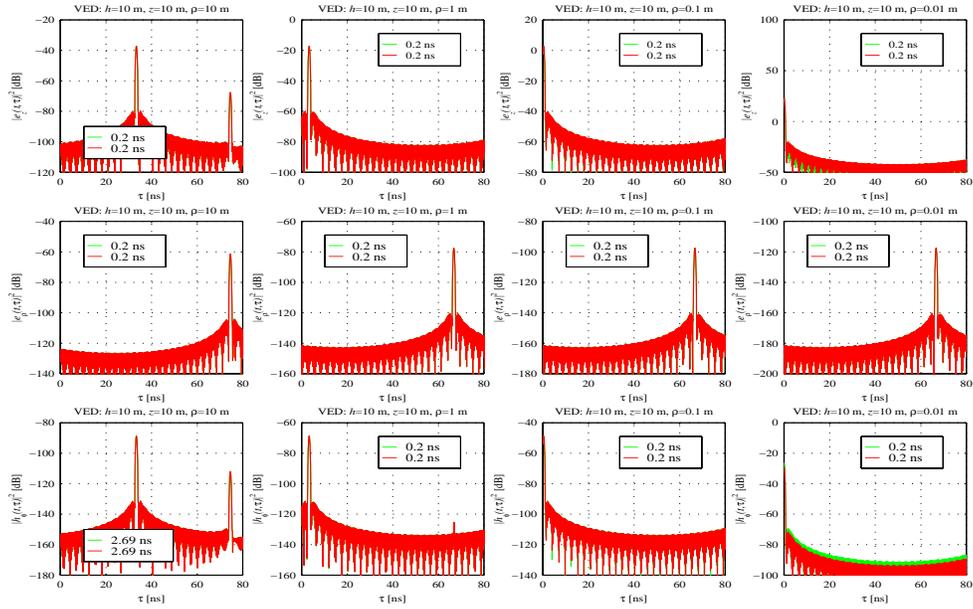


Figure C-2. Near-field effects on impulse responses of a VED above a concrete half space ($f_c=5.8$ GHz, $BW\approx 1$ GHz, threshold=-30 dB). Legends display Sommerfeld and GO approximations to delay spread.

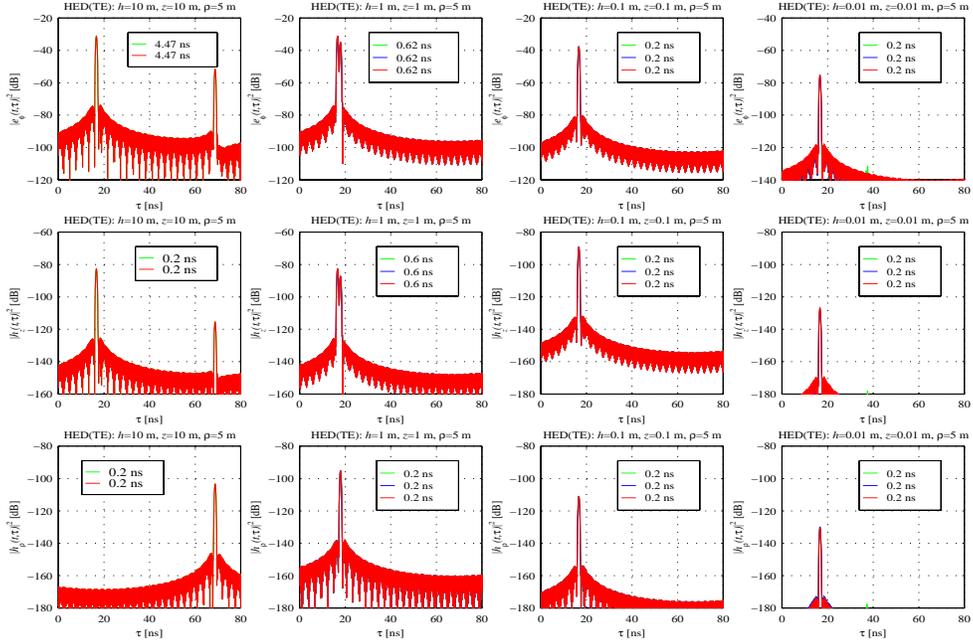


Figure C-3. Near-surface effects on impulse responses of an x-aligned HED above a concrete half space ($f_c=5.8$ GHz, $BW \approx 1$ GHz, threshold=-30 dB, $\phi=90^\circ$). Legends display Sommerfeld, GO + Norton term, and GO approximations to delay spread.

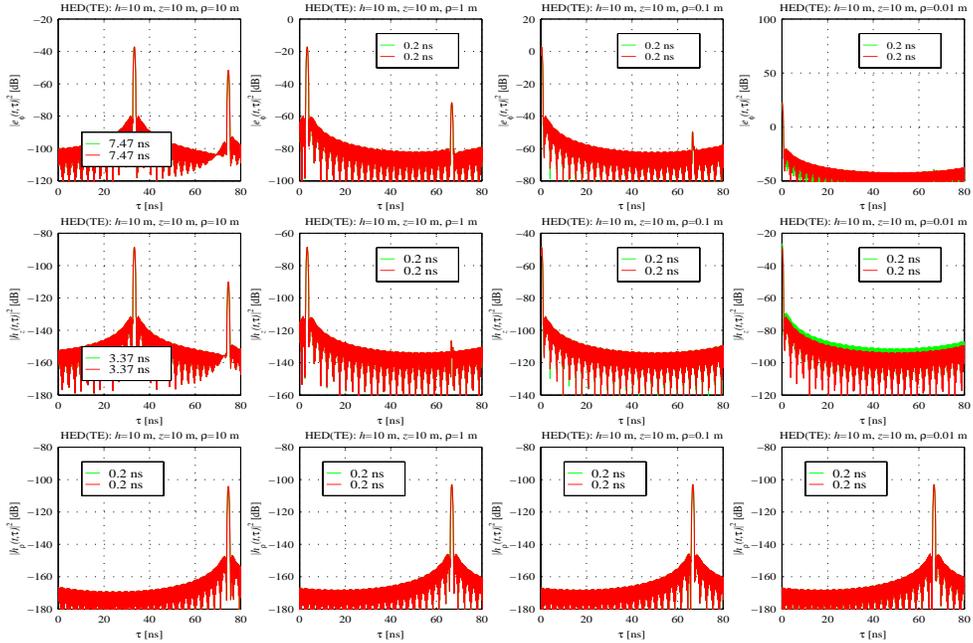


Figure C-4. Near-field effects on impulse responses of an x-directed HED above a concrete half space ($f_c=5.8$ GHz, $BW \approx 1$ GHz, threshold=-30 dB, $\phi=90^\circ$). Legends display Sommerfeld and GO approximations to delay spread.

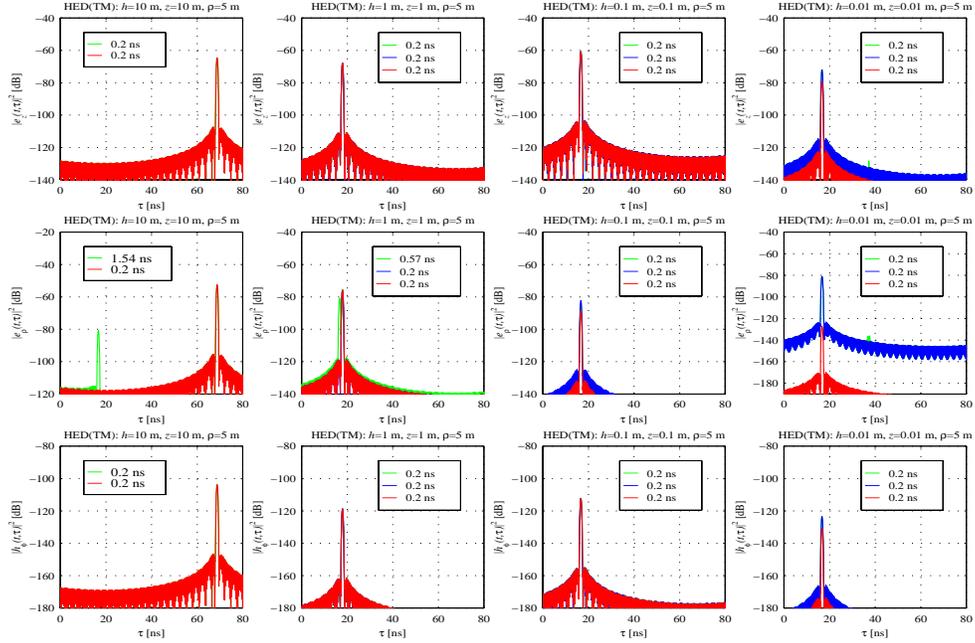


Figure C-5. Near-surface effects on impulse responses of an x-aligned HED above a concrete half space ($f_c=5.8$ GHz, $BW\approx 1$ GHz, threshold=-30 dB, $\varphi=0^\circ$). Legends display Sommerfeld, GO + Norton term, and GO approximations to delay spread.

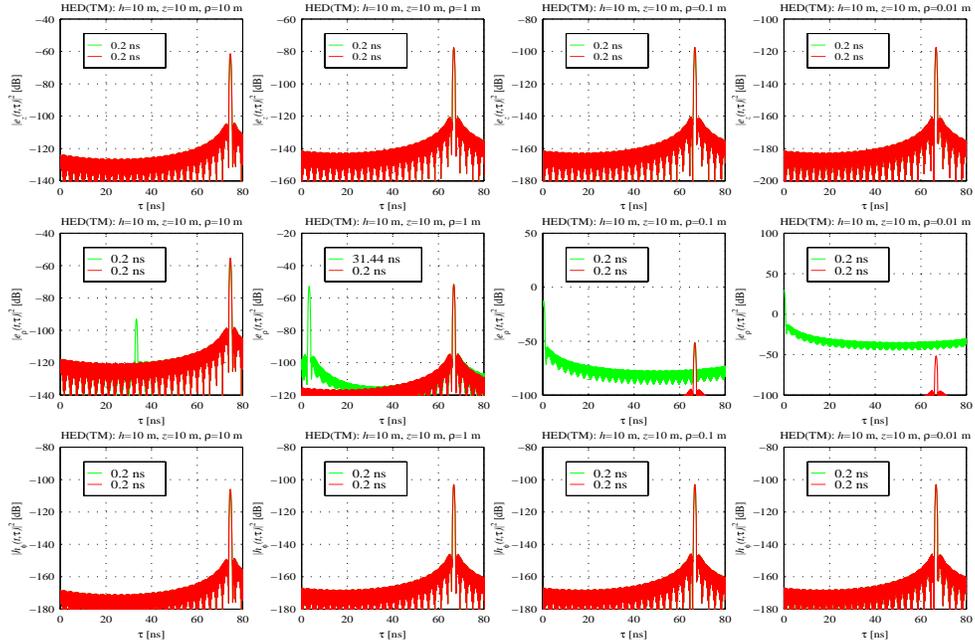


Figure C-6. Near-field effects on impulse responses of an x-aligned HED above a concrete half space ($f_c=5.8$ GHz, $BW\approx 1$ GHz, threshold=-30 dB, $\varphi=0^\circ$). Legends display Sommerfeld and GO approximations to delay spread.